XML code:

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/t1"  
 android:text="ID :"  
 android:textSize="20sp"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginLeft="20dp"/>  
 <EditText  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="18dp"  
 android:layout\_marginLeft="80dp"  
 android:id="@+id/eid"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/t2"  
 android:text="Name:"  
 android:textSize="20sp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="20dp"  
 android:layout\_below="@id/t1"/>  
 <EditText  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="60dp"  
 android:layout\_marginLeft="90dp"  
 android:id="@+id/ename"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/t3"  
 android:text="Duration:"  
 android:textSize="20sp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="20dp"  
 android:layout\_below="@id/t2"/>  
 <EditText  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="110dp"  
 android:layout\_marginLeft="110dp"  
 android:id="@+id/eduration"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/t4"  
 android:text="Description:"  
 android:textSize="20sp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="20dp"  
 android:layout\_below="@id/t3"/>  
 <EditText  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="160dp"  
 android:layout\_marginLeft="140dp"  
 android:id="@+id/edescription"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/badd"  
 android:text="Add"  
 android:layout\_below="@id/t4"  
 android:layout\_marginTop="15dp"  
 android:layout\_marginLeft="20dp"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bdel"  
 android:text="Delete"  
 android:layout\_below="@id/badd"  
 android:layout\_marginTop="15dp"  
 android:layout\_marginLeft="20dp"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bup"  
 android:text="Update"  
 android:layout\_below="@id/bdel"  
 android:layout\_marginTop="15dp"  
 android:layout\_marginLeft="20dp"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bview"  
 android:text="View all"  
 android:layout\_below="@id/bup"  
 android:layout\_marginTop="15dp"  
 android:layout\_marginLeft="20dp"/>  
  
  
  
  
</RelativeLayout>

Java code:

package com.example.myapplication;  
import androidx.appcompat.app.AppCompatActivity;  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.EditText;  
import android.content.Context;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.Cursor;  
import android.view.View;  
import android.view.View.OnClickListener;  
import android.app.AlertDialog.Builder;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity implements OnClickListener  
{  
 EditText id,name, dur,des;  
 Button b1,b4,b2,b3;  
 SQLiteDatabase db;  
 String title,message;  
 @SuppressLint("MissingInflatedId")  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 id=(EditText) findViewById (R.id.*eid*);  
 name=(EditText) findViewById(R.id.*ename*);  
 dur = (EditText) findViewById(R.id.*eduration*);  
 des=(EditText) findViewById(R.id.*edescription*);  
 b1=(Button) findViewById(R.id.*badd*);  
 b4=(Button) findViewById(R.id.*bview*);  
 b2=(Button) findViewById(R.id.*bdel*);  
 b3=(Button) findViewById(R.id.*bup*);  
 b1.setOnClickListener(this);  
 b2.setOnClickListener(this);  
 b3.setOnClickListener(this);  
 b4.setOnClickListener(this);  
 db=openOrCreateDatabase("Course",Context.*MODE\_PRIVATE*, null);  
 db.execSQL("CREATE TABLE IF NOT EXISTS course(id VARCHAR,name VARCHAR,dur VARCHAR,des VARCHAR);");  
 showMessage("Success","Table Created");  
 }  
 public void showMessage(String title,String message)  
 {  
 Builder builder=new Builder(this);  
 builder.setCancelable(true);  
 builder.setTitle(title);  
 builder.setMessage(message);  
 builder.show();  
 }  
 public void clearText()  
 {  
 id.setText("");  
 name.setText("");  
 dur.setText("");  
 des.setText("");  
 id.requestFocus();  
 }  
 @Override  
 public void onClick(View view){  
 if(view==b1)  
 {  
 if(id.getText().toString().trim().length()==0||name.getText().toString().trim().length()==0|| dur.getText().toString().trim().length()==0||des.getText().toString().trim().length()==0)  
 {  
 Toast.*makeText*(this,"please enter the value",Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
 db.execSQL("insert into course values('"+id.getText()+"','"+name.getText()+"','"+dur.getText()+"','"+des.getText()+"');");  
 showMessage("Success","Record added");  
 clearText();  
 }  
 if (view==b4)  
 {  
 Cursor c=db.rawQuery("select \* from course",null);  
 if(c.getCount()==0)  
 {  
 showMessage("Error","No Record Found");  
 return;  
 }  
 StringBuffer b=new StringBuffer();  
 while(c.moveToNext())  
 {  
 b.append("Course id:"+c.getString(0)+"\n");  
 b.append("Course name:"+c.getString(1)+"\n");  
 b.append("Course duration:"+c.getString(2)+"\n");  
 b.append("Course description:"+c.getString(3)+"\n");  
 }  
 showMessage("Course Details",b.toString());  
  
 }  
 if(view==b2)  
 {  
 if(id.getText().toString().trim().length()==0)  
 {  
 showMessage("Error","Please Enter the Employee ID");  
 return;  
 }  
 Cursor c=db.rawQuery("select \* from course where id='"+id.getText()+"'",null);  
 if(c.moveToFirst())  
 {  
 db.execSQL("delete from course where id='"+id.getText()+"'");  
 showMessage("Success","Record Deleted");  
 }  
 else  
 {  
 showMessage("Error","Invalid Course ID");  
 }  
 clearText();  
 }  
 if(view==b3)  
 {  
 if(id.getText().toString().trim().length()==0)  
 {  
 showMessage("Error", "Please enter the course id");  
 return;  
 }  
 Cursor c=db.rawQuery("select \* from course where id='"+id.getText()+"'",null);  
 if(c.moveToFirst())  
 {  
 db.execSQL("update course set name='"+name.getText()+"',dur='"+dur.getText()+"'where id='"+id.getText()+"'");  
 showMessage("Success","Record Modified");  
 }  
 else  
 {  
 showMessage("Error","Invalid Course ID");  
 return;  
  
 }  
 }  
 clearText();  
 }  
  
  
}